DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES Office of Structural Materials

Quality Assurance and Source Inspection

Bay Area Branch 690 Walnut Ave.St. 150 Vallejo, CA 94592-1133 (707) 649-5453 (707) 649-5493



Contract #: 04-0120F4

Cty: SF/ALA Rte: 80 PM: 13.2/13.9

File #: 69.15

SOURCE INSPECTION REPORT

Resident Engineer: Pursell, Gary **Report No:** SIR-002591 Address: 333 Burma Road **Date Inspected:** 05-Aug-2010

City: Oakland, CA 94607

OSM Arrival Time: 830 **Project Name:** SAS Superstructure **OSM Departure Time:** 1030 **Prime Contractor:** American Bridge/Fluor Enterprises, a JV

Contractor: Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** SRIM, Shanghai

Quality Control Contact: Quality Control Present: Yes Mr. Lui No

Material transfer: Yes No N/A Sampled Items: Yes No N/A **Stock Transfer:** N/A N/A Yes No OK to Cut: Yes No **Rebar Test Witness:** Yes N/A N/A No **Delayed/Cancelled:** Yes No

Other: wintess tensile test material qualifications

Bridge No: 34-0006 TTP-Z plate **Component:**

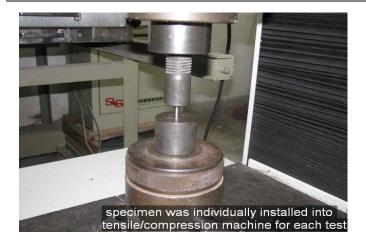
Bid Item: 34-0006 Lot No: B240

Summary of Items Observed:

Caltrans Quality Assurance (QA) inspector representative, Mr. Rodney Patterson, Wai Pau, ABF QA Mr. Jeff, and ZPMC QA Mr. Canon traveled to SRIM Test Lab, Shanghai to witness mechanical tensile tests processing for material qualifications. All the material is used for TTP-Z plates. The mechanical test includes 16 lots and each lot has one tensile test. The test material grade is A709M-345T2-X/345F2-X and lot number is CX090223Q013, CX090112Q009, XX090429Q012, 070216Q233, CX090813Q108, CX091116Q016, CX091116Q030, CX091116Q036, CX0908131107, CX090101Q397, WY070806Q099, WY070916Q011, BS070728Q103, CX091109Q012, CX091108Q013, CX091125Q001. The tensile test equipment used is Zwick / Roell, model Z400 tensile/compression machine with computerize load indicator. The machine calibrated due day is Sep-11-2011. Total 16 piece tensile test specimens were individually installed into tensile/compression machine for each tensile test. Each test specimen ruptured under tensile load and determined the maximum ultimate tensile strength and type of failure. Caltrans QA inspector verified that accuracy of tensile strength reading, which indicated on digital indicator during each ruptured time, also check the ruptured area and elongation of test specimens after unloaded from the test machine. The entire various mechanical tests operation were recorded and accepted by the SRIM technician. Based on Caltrans QA inspector observation, the mechanical tensile tests were appeared to be in general compliance with requirement of Caltrans Special Provision and contract documents. SRIM will submit those tensile tests tomorrow afternoon.

SOURCE INSPECTION REPORT

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Summary of Conversations:

As notes within report above

Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact James Devey 15000026784, who represents the Office of Structural Materials for your project.

Pau, Wai **Inspected By: Quality Assurance Inspector Reviewed By:** Patterson, Rodney **QA** Reviewer